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[033] This palletizing machine 1 is usually, but not necessarily, located at the end of a continuous production line for tubes 2 and allows them to be automatically or semi-automatically palletized, using a continuous or discontinuous method. For this purpose, it comprises a gantry 3 to which is attached a carrier 4 which can move in vertical translation. At least one gripping device 5 with claws, air vents, or other adaptation is attached to said carrier 4 in horizontal translation and is designed to remove tubes 2 located side by side in parallel on an inclined storage ramp 6 and deposit them side by side in parallel on at least one transport pallet 7 or any other fixed or movable support. In the example shown, gripping device 5 consists of a gripping girder 5 extending along the entire length of tubes 2, said gripping girder 5 being equipped with air vents 5' allowing it to carry tubes 2 using suction. Likewise, in the example shown, transport pallet 7 is supported by a movable carrier 8, but may also be located between fixed and/or removable upright posts.